



MAKEFAST

*Putting the rest
in the shade!*



Automatic Powered

Awnings • Biminis • Canopies • Sunroof Systems

*A large range of sunroofs,
the choice is yours...*



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Makefast is the U.K.'s leading manufacturer and supplier of manual and electric sliding roofs, awnings and bimini hydraulic units.

Sunroofs

Makefast powered sunroof systems incorporate either a solid panel to provide a hardtop, or canvas to allow a longer open area. Electrically driven, reliable and easy to operate.

Narrow Track Sunroofs

Makefast is proud to announce their latest product innovation - the "Narrow Track Sunroof System". This budget, compact and stylish unit is ideal for boats where the track channels are narrow, and fits many existing roof profiles.

Bimini Hydraulic Units

Makefast's cutting edge "Bimini Power system" allows one person, at the touch of a button, to deploy or stow a Bimini in 60 seconds, instead of several crew members taking up to fifteen minutes with traditional structures. In addition, the Bimini can remain deployed whilst cruising at up to 35 knots. A cumbersome procedure made easy.

Manual or Powered Awning

To complement the current Makefast range of powered Sunroofs and Bimini units, Makefast introduces their new "Powered Sun Awning". It features a compact electrically powered drive unit, which deploys a rigid 316-grade stainless steel structure, secured with auto tensioning pivot arms. Complete with canvas shade.

*Makefast - Putting the
rest in the shade!*



FM 60306

POWERED "SOFT TOP" CANVAS SUNROOF

TECHNICAL SPECIFICATIONS

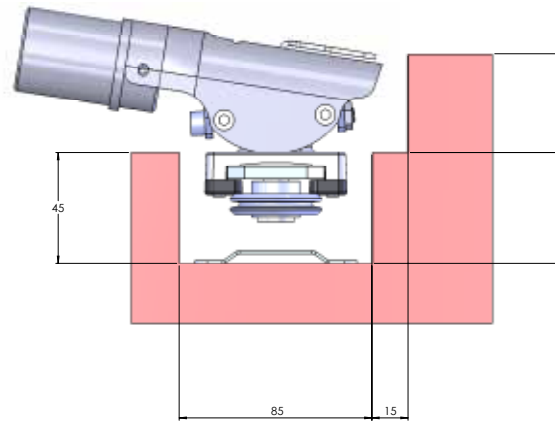
For new and existing designs

Supporting a canvas roof with integral headlining facility. Suitable for use on most sizes of Sports yachts and sailboats. It is designed to compliment the profile of the yacht. For boats over 12 metres (40ft).



Picture courtesy of Sealine International Ltd.

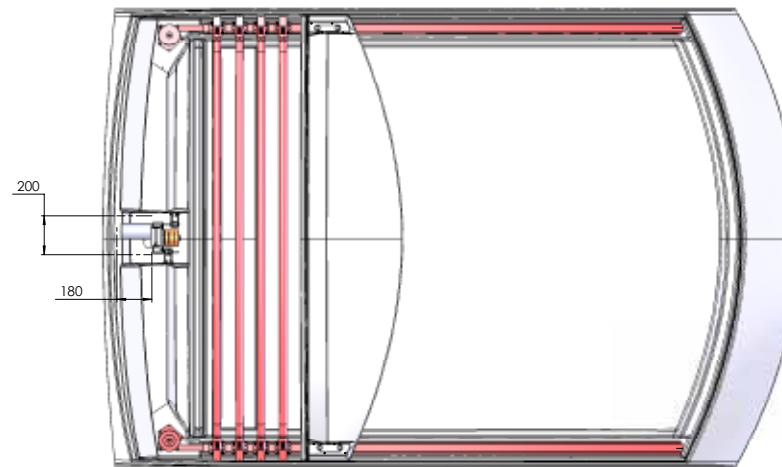
MAKEFAST STANDARD SUNROOF - CHANNELS



ALL DIMENSIONS ARE NOMINAL PLEASE
CONTACT MAKEFAST WITH YOUR PROPOSAL



Picture courtesy of Princess Yachts International PLC



POWERED "SOFT TOP" CANVAS SUNROOF

- Roof mechanism capable of accommodating considerable movement and build variation in parent structure of yacht.
- Clear width of opening 1.5 – 3 metres
- Clear length of opening 1.5 to 3 metres
- Opening speed nominal 5 metres per minute
- Low maintenance, self lubricating, self cleaning tracks and cars. Highly polished 316SS
- Carriage construction Non Hygroscopic plastic
- Type 316 stainless steel cable system, (7 x 19 construction)
- Motor gear box unit :-
 - 12 or 24 volt available
 - Fixed ratio gearbox
 - Protected IP54 unit
- Electrical control box rated IP66
- Limit sensors fore and aft
- Operated by 2 way rocker switch mounted on the dashboard – customer supplied
- Remote control option available
- Unit weight 65 Kgs. based on 3 metres x 2.5 metres (excluding canvas)
- Canvas supplied by customer or ask Makefast to quote.
- Core system is designed to accommodate build variation, extremes of temperature and weather, and structural movement of the boat whilst at sea.
- Extensive salt spray and function testing is carried out
- 12 month warranty period from date of dispatch (full details available)

Submit your drawings or concept for a solution proposal... Contact Sales on T: +44 (0)1686 629010 E: sales@makefast.com www.makefast.com

POWERED "HARD TOP" SINGLE PANEL SUNROOF

TECHNICAL SPECIFICATIONS

For new and existing designs

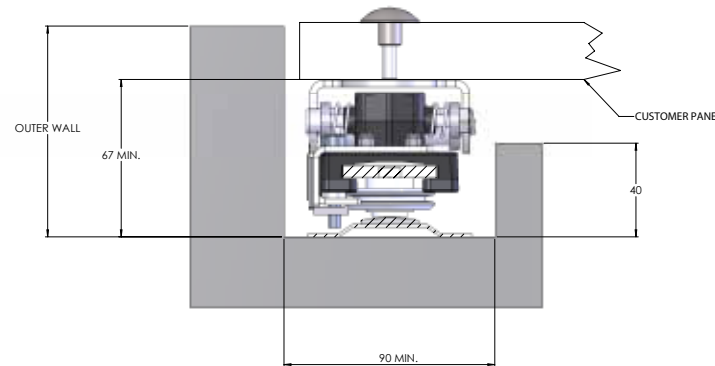
Single panel solid roof in GRP or glass. Suitable for use on most sizes of Sports yachts and sailboats. It is designed to compliment the profile of the yacht. For boats over 12 metres (40ft).



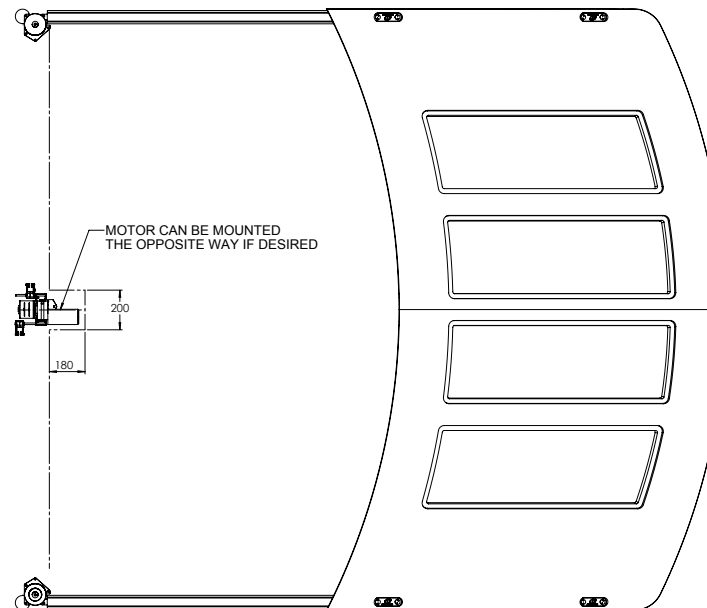
Picture courtesy of Windy Boats AS



MAKEFAST STANDARD SUNROOF - CHANNELS



ALL DIMENSIONS ARE NOMINAL PLEASE CONTACT
MAKEFAST WITH YOUR PROPOSAL



POWERED "HARD TOP" SINGLE PANEL SUNROOF

- Roof mechanism capable of accommodating considerable movement and build variation in parent structure of yacht.
- Clear width of opening 1.5 – 3 metres
- Clear length of opening 1.5 to 3 metres
- Panel thickness nominally 20 mm.
- Opening speed nominal 5 metres per minute
- Track construction, highly polished 316SS
- Carriage construction Non Hygroscopic plastic
- Type 316 stainless steel cable system, (7 x 19 construction)
- Motor gear box unit :-
 - 12 or 24 volt available
 - Fixed ratio gearbox
 - Protected IP54 unit
- Electrical control box rated IP66
- Limit sensors fore and aft
- Operated by 2 way rocker switch mounted on the dashboard – customer supplied
- Remote control option available
- Unit supplied in modular form - 2 assembled track assemblies including carriages, tracks, pillars, cable tensioning units mounted to base channel. With separate motor assembly and control box. Installation and service manual included.
- Unit weight 60 Kgs. based on 3 metres x 2.5 metres (excluding panel)
- Solid panel supplied by customer or ask Makefast to quote.
- Core system is designed to accommodate build variation, extremes of temperature and weather, and structural movement of the boat whilst at sea.
- Extensive salt spray and function testing is carried out.
- 12 month warranty period from date of dispatch (full details available)

POWERED "HARD TOP" STACKING SUNROOF

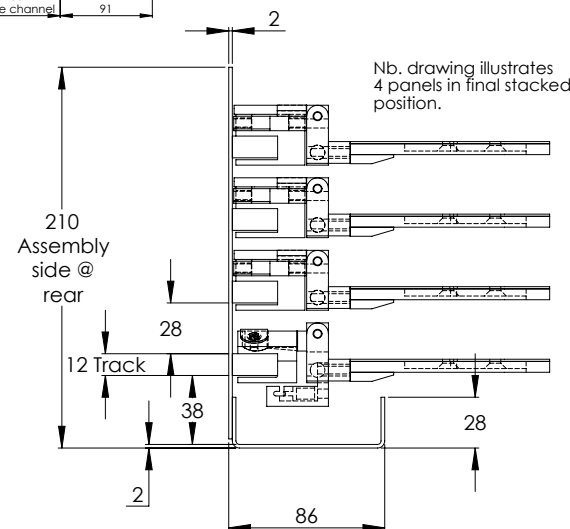
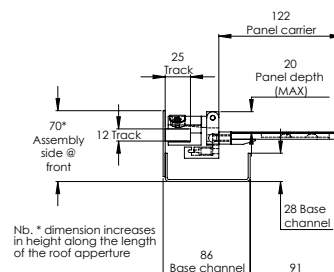
TECHNICAL SPECIFICATIONS

Luxury bespoke design. For new designs only

Multi panel solid roof in GRP or glass. Suitable for use on most sizes of Sports yachts and sailboats. It is designed to compliment the profile of the yacht. Can utilise 2 panels or more and can accomodate various panel lengths. Panel thickness nominally 20mm.



Pictures courtesy of Strand-craft Sweden AB



POWERED "HARD TOP" STACKING SUNROOF

- Roof mechanism capable of accommodating considerable movement and build variation in parent structure of yacht.
- Clear width of opening 1.5 - 3 metres
- Clear length of opening 1.5 to 3 metres
- Panel thickness - bespoke design
- Panel length - bespoke design
- Can utilise 2, 3 or 4 panels
- Opening speed nominal 5 metres per minute
- Track construction, highly polished 316SS
- Carriage construction Non Hygroscopic plastic
- Type 316 stainless steel cable system, 7 x 19 construction.
- Motor gear box unit :-
 - 12 or 24 volt available
 - Fixed ratio gearbox
 - Protected IP54 unit
- Electrical control box rated IP66
- Limit sensors fore and aft
- Operated by 2 way rocker switch mounted on the dashboard – customer supplied
- Remote control option available
- Unit supplied in modular form - 2 assembled track assemblies including carriages, tracks, pillars, cable tensioning units mounted to base channel. With separate motor assembly and control box. Installation and service manual included.
- Unit weight 60 Kgs. based on 3 metres x 2.5 metres (excluding panel)
- Solid panel supplied by customer or ask Makefast to quote.
- Core system is designed to accommodate build variation, extremes of temperature and weather, and structural movement of the boat whilst at sea.
- Extensive salt spray and function testing is carried out.
- 12 month warranty period from date of dispatch (full details available)

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MANUAL OR POWERED NARROW TRACK SUNROOF

TECHNICAL SPECIFICATIONS

For canvas, GRP or glass.

New lighter sunroof which can be used on many existing boats. It is ideal for boats where the tracks are narrow and fits many existing roof profiles. It has a maximum travel of 2 metres and will accept a maximum weight of 50 Kgs. 316 grade stainless steel track and rail system

- Self cleaning, self lubricating system incorporating nylon with silicon additive
- Low profile with self centering cross beams and fabric tensioners
- Low maintenance and easy to fit as a new build or retrofit
- Compact flexible drive requires less space
- electronic control box to IP65 24V or 12V

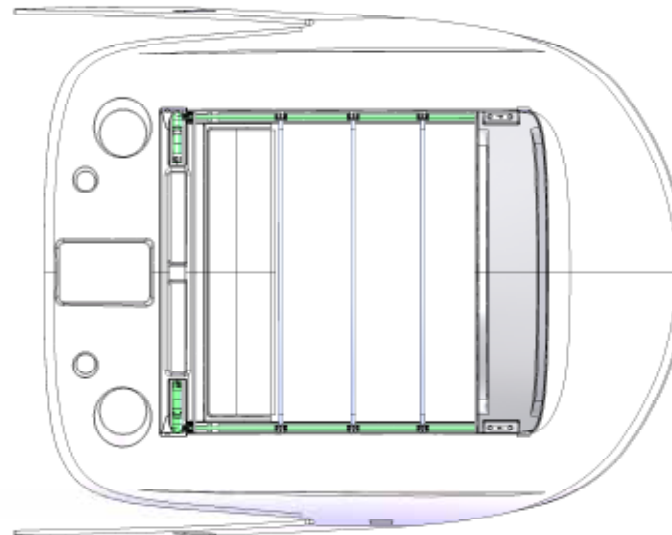
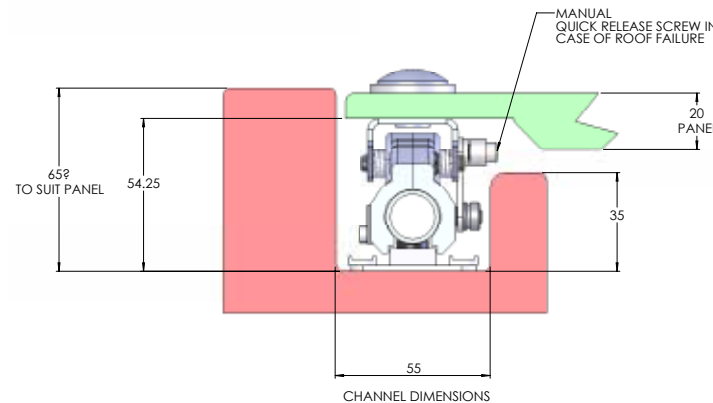


Picture courtesy of Manó Marine Srl.



Picture courtesy of Fiat Mare S.p.A.

MAKEFAST NARROW TRACK SUNROOF - CHANNEL



MANUAL OR POWERED NARROW TRACK SUNROOF

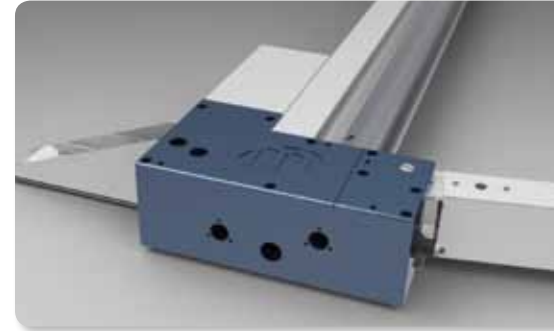
- Self cleaning, self lubricating system incorporating nylon with silicone additive
- Low profile with self centering cross beams and fabric tensioners
- Roof mechanism capable of accommodating movement and build variation in parent structure of yacht.
- Cable driven system ensures parallel motion on nose cone without twisting.
- Clear width of opening 1.5 – 2.25 metres
- Clear length of opening 1.0 – 3 metres
- Track construction, highly polished 316 stainless steel
- Manual unit supplied with central Type 316 stainless steel handle
- Powered unit supplied with electronic control box to IP65 24V or 12V
- Core system is designed to accommodate build variation, extremes of temperature and weather, and structural movement of the boat whilst at sea.
- Extensive salt spray and function testing is carried out.
- 12 month warranty period from date of despatch (full details available)

POWERED SUN AWNING

TECHNICAL SPECIFICATIONS

New Makefast sun Awning has spring loaded tension arms and a 316 stainless steel construction.

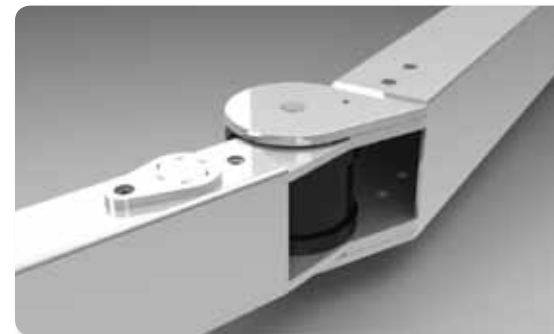
- Electric power with manual override
- Compact mechanism design
- Easy to fit mounting points
- Maximum extension is 1.6 metres
- Width can be customer specific



COMPACT MOTOR DRIVE UNIT



RIGID 316 STAINLESS STEEL STRUCTURE



AUTO TENSIONING PIVOT ARMS

POWERED SUN AWNING

- Electric power with manual override
- Compact mechanism design
- Easy to fit mounting points
- Maximum extension is 1.6 metres
- Width can be customer specific
- Control box to IP65, 24V or 12V
- Soft stop/start
- Canvas to suit customers specification
- Canvas auto tensioning
- 12 month warranty period from date of despatch (full details available)

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AUTOMATIC POWERED BIMINI SYSTEM

TECHNICAL SPECIFICATIONS

Great added value for Bimini makers. For new build yachts or retrofit

- BHU-001 and BHU-001Y Large, bimini micro hydraulic system fits 38 mm. (1 1/2") tube, for canvas up to 4 metres wide, 3-4 metres throw.
- BHU-002 and BHU-002Y Small bimini hydraulic unit fits 32 mm. (1 1/4") tube, for canvas up to 4 metres wide, 4 metres throw.
- BHU-003 and BHU-003Y Large, strong bimini unit hydraulic unit fits 50 mm. (2") tube, will take up to twice the weight and twice the width of the other units.



Pictures courtesy of Princess Yachts International PLC



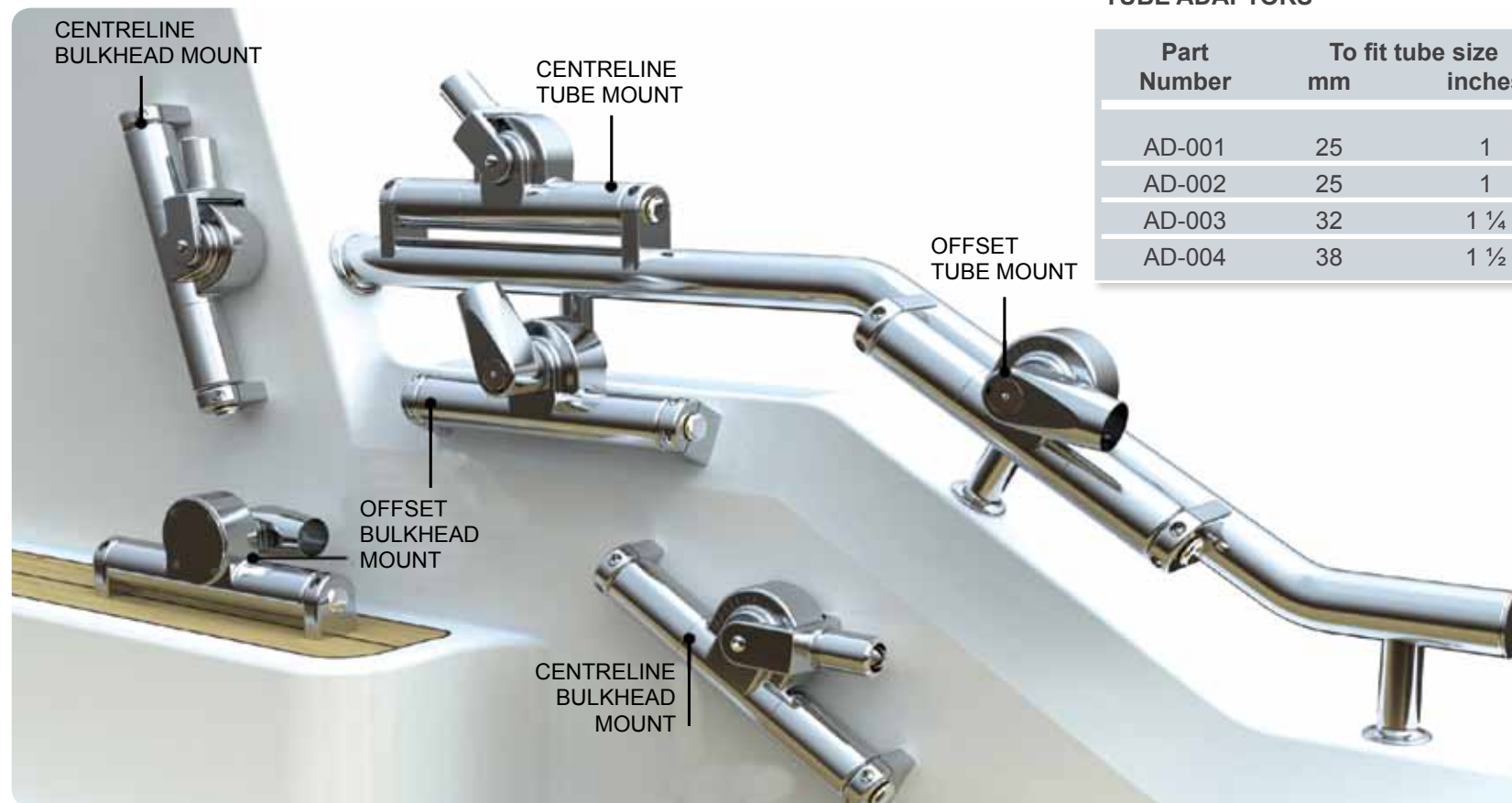
AUTOMATIC POWERED BIMINI SYSTEM

Customer to specify mounting position when ordering - position is factory set

- Connection system allows all micro hydraulic pipe work to be hidden within mountings
- Coloured pipe system for ease of installation and identification
- Self tensioning
- Range of movement 150° as standard - see diagram on opposite page
- Push button control with automatic rocker safety switch
- Automatic safety override valve
- Operation warning beeper unit installed in system. (Can be silenced)
- Adjustable torque
- Hydraulic pump unit available in 12 or 24 volt pump unit box
- Manual override facility

TYPICAL MOUNTING CONFIGURATIONS

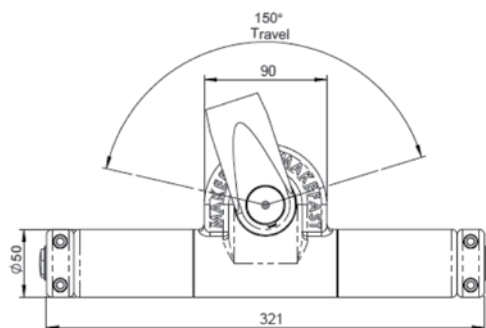
For Automatic Powered Bimini Systems



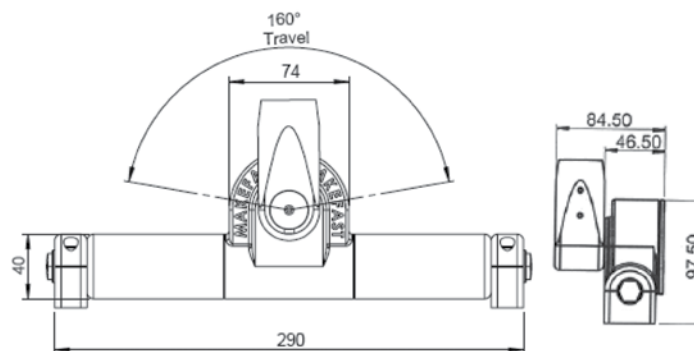
TUBE ADAPTORS

Part Number	To fit tube size		To Suit Units
	mm	inches	
AD-001	25	1	BHU-002 and BHU-002Y
AD-002	25	1	BHU-001 and BHU-001Y
AD-003	32	1 ¼	BHU-001 and BHU-001Y
AD-004	38	1 ½	BHU-002 and BHU-002Y

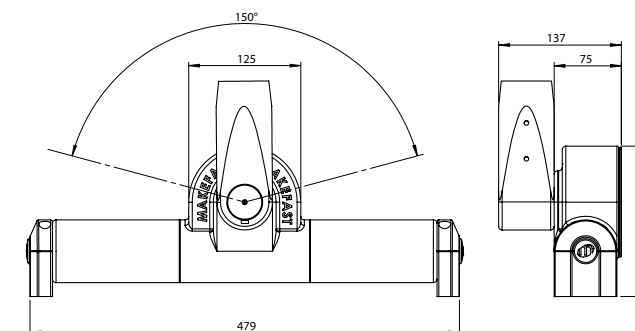
BHU-001 / BHU-001Y



BHU-002 / BHU-002Y



BHU-003 / BHU-003Y



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SPRAYHOOD FITTINGS

JAW SLIDES FOR 30mm, 32mm AND 38mm TUBES

- Available for 30mm, 32mm (1 ¼") and 38mm (1 ½") diameter tubes
- Design uses 2 pop rivets (eliminates grub screws)
- Ideal for larger bimini and canvas canopy structures
- Compatible with automatic bimini system



- Versatile unit can be fitted either horizontally or vertically
- In type 316 stainless steel, mirror polished
- Compact and attractive addition to the finished canopy
- Suitable for use with internal adjustable end plugs

Part Number	Description	Tube Diameter	
		mm	inches
1093	Jaw slide standard	30	
1094	Jaw slide extension 30 mm.	30	
1095	Jaw slide extension 60 mm.	30	
0984	Jaw slide standard	32	1 ¼
1062	Jaw slide extension 1 ¼"	32	1 ¼
1063	Jaw slide extension 3"	32	1 ¼
0985	Jaw slide standard	38	1 ½
1060	Jaw slide extension 3"	38	1 ½
1061	Jaw slide extension 3"	38	1 ½

SPLIT JAW SLIDES FOR 30mm, 32mm (1 ¼") 38mm (1 ½")



Part Number	To Fit	
	mm	inches
1092	30	
1065	32	1 ¼
1064	38	1 ½

SPRAYHOOD FITTINGS

ADJUSTABLE END PLUGS FOR 30mm, 32mm (1 ¼") AND 38mm (1 ½")

- In Type 316 stainless steel, mirror polished
- Unique adjustment allows for easy installation
- Complete with rivet hole for easy fixing to tube



INTERNAL END PLUGS, right and left handed

Part Number	Description	Tube Dia. mm	inches	Wall Thickness mm
1091 & L	Internal end plug, right or left handed	30		1.5
0982 & L	Internal end plug, right or left handed	32	1 ¼	1.5
0983 & L	Internal end plug, right or left handed	38	1 ½	1.5



EXTERNAL END PLUGS, right and left handed

Part Number	Description	Tube Dia. mm	inches	Wall Thickness mm
1090 & L	External end plug, right or left handed	30		1.5

FIXED END PLUG



Part Number	Description	Tube Dia. mm	inches	Wall Thickness mm
1097	Fixed external end plug	30		1.5

UNIVERSAL DECK FITTING TO FIT 30mm, 32mm and 38 mm. (1 ¼" and 1 ½") TUBES



- To suit 30mm, 32mm (1 ¼") or 38mm (1 ½") tubes
- Ideal for larger bimini and canvas canopy structures at 150 kg. upwards
- Full 180° adjustment to suit the majority of applications
- Can be fitted horizontally or vertically
- In type 316 stainless steel, mirror polished
- Part No. 0986 Deck fitting with pull pin
- Part No. 0987 Deck fitting with ring pull pin

*Other fittings for 30mm tube –
all products are polished
Type 316 stainless steel*

TYPE 316 STAINLESS TELL TUBE ALSO AVAILABLE
FROM MAKEFAST AND OUR DISTRIBUTORS,
30MM O/D X 1.5MM WALL THICKNESS
• 3M LENGTH PART NO. 1200 • 6M LENGTH PART NO. 1201



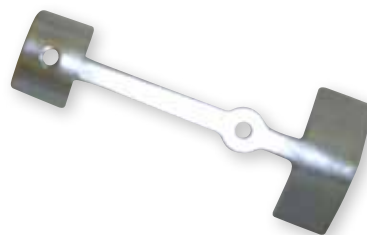
GRABRAIL FITTING PART NO. 1096



TELESCOPIC POLE
PART NO. 1120 extension length 150mm
PART NO. 1121 extension length 300mm



TUBE JOINT PART NO. 1088



DRILL JIG PART NO. 4149



VARIABLE POSITION TUBE MOUNT
PART NO. 1100



BULKHEAD MOUNT PART NO. 1089



TUBE HINGE PART NO. 1087



VARIABLE POSITION DECK MOUNTING
PART NO. 1099



MAKEFAST

Makefast Limited

31 Mochdre Industrial Estate Newtown Powys Wales SY16 4LE United Kingdom

T: +44 (0)1686 629010 • F: +44 (0)1686626700

E: sales@makefast.com • www.makefast.com